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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/718,423	11/20/2003	Thierry Lucidarme	218728-000205	9659	
21906 TROP PRUNER	7590 02/12/2007 R & HU PC		EXAMINER		
1616 S. VOSS ROAD, SUITE 750 KUMAR, PANK		PANKAJ			
HOUSTON, TX	77057-2631		ART UNIT PAPER NUMBER		
			2611		
			,		
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MON	PHT	02/12/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)					
	10/718,423	LUCIDARME ET AL.					
Office Action Summary	Examiner	Art Unit					
	Pankaj Kumar	2611					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication D (35 U.S.C.§ 133).					
Status							
1) Responsive to communication(s) filed on 18 N	<u>1arch 2004</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This	☐ This action is FINAL. 2b)☑ This action is non-final.						
) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) ☐ Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1, 2, 5, 6, 9, 10, 13, 14 is/are rejected 7) ☐ Claim(s) 3,4,7,8,11,12,15 and 16 is/are object 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration. d. ed to.		·				
Application Papers		•					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposite and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the drawing(s) be held in abeyance. Settion is required if the drawing(s) is ob	e 37 CFR 1.85(a). njected to. See 37 CFR 1.121(d	d).				
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Application onty documents have been received in the control of the control	ion No ed in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D. 5) Notice of Informal F 6) Other:	ate					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1, 2, 9, 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention since for example claims 1 and 2 appear to contradict each other.
- 3. Claim 2 depends on claim 1. Claim 1 says that the order is greater than 2. Claim 2 indicates that the order can be less than 2. Hence, claims 1 and 2 contradict each other.
- 4. Similar issue exists with claims 9 and 10.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 5, 6, 9, 13, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Skold USPN 5903610 in view of Hanson USPN 5652715.
- 7. As per claim 1, Skold teaches a method for detecting a signal burst transmitted on the initiative of a sender on a radio channel listened to by a receiver system (Skold fig. 1: receiving transmission), the transmitted burst representing a predetermined digital sequence (Skold fig. 1: bn is representing 17 since it is being correlated, synchronized and is being used together in other

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operations), in which method channel parameters representing a statistical behavior of the radio channel are estimated (Skold fig. 1: 20, 22 input bn) and a detection magnitude is evaluated (Skold fig. 1: 24) on the basis of the estimated channel parameters (Skold fig. 1: 20, 22) and of a correlation between a signal received at the receiver system (Skold fig. 1: left input into 16) and the predetermined digital sequence (Skold fig. 1 bottom input into 16), wherein said estimated channel parameters comprise moments of order greater than 2 of the gain on the radio channel (not in Skold but would be obvious as explained below). Hanson 5652715 teaches wherein said estimated channel parameters comprise moments of order greater than 2 of the gain on the radio channel (Hanson 5652715 col. 4 line 14: y comprises a calculation with an order of 3 as (1-u) is cubed). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement the teachings of Hanson into Skold since Skold suggests signal and channel parameters (Skold title has channel estimation) (something broad) in general which are effected by noise and Hanson suggests the beneficial use of estimating signal noise using a cubic spline curve such as to reduce noise (Hanson cols. 3, 4) in the analogous art of signal and correlation.

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- 8. As per claim 5, Skold in view of Hanson teaches the method as claimed in claim 1, in which said sender is a mobile terminal, said receiver system belongs to a radiocommunication network and in which said burst is sent so as to request access to the network (Skold fig. 1: b receives access to the receiver and hence inherently requested access when transmitted).
- 9. As per claim 6, Skold in view of Hanson teaches the method as claimed in claim 1, in which said sender comprises a base station of a radiocommunication network, said receiver system forms part of a mobile terminal, and in which said burst is sent for the temporal

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synchronization between the sender and the receiver system (Skold fig. 1: synchronization; abs: digital radio communication system).

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- 10. Claim 9 is discussed above with respect to claim 1.
- 11. Claim 13 is discussed above with respect to claim 5.
- 12. Claim 14 is discussed above with respect to claim 6.

Allowable Subject Matter

13. Claims 3, 4, 7, 8, 11, 12, 15, 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (571) 272-3011. The examiner can normally be reached on Monday through Friday.

- 15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 16. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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